

SYSTEMS AND METHODS FOR FULL HEMISPHERICAL PROJECTION USING
MULTIPLE PROJECTORS THAT GENERATE MULTIPLE ARRAYS OF IMAGE
PIXELS THAT OVERLAP ALONG A SINGLE EDGE

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ABSTRACT OF THE DISCLOSURE

An optical projection system includes a first image source that is configured to generate a first array of image pixels and a first lens assembly that is configured to project the first array of image pixels onto a non-planar surface. A second image source is configured to generate a second array of image pixels and a second lens assembly is configured to project the second array of image pixels onto the non-planar surface. The first and second arrays of image pixels overlap along a single edge and the combination of the first and second arrays of image pixels covers a continuous portion of the surface.